



Starter selection by motor horsepower & voltage

Maximum UL/CSA ratings, three phase

3

Motor horsepower				Complete starter		Starter components					
3-phase, 1800 RPM ①				Catalog number	List price	Contactors		Overload relays			
200V	230V	460V	575V			Catalog number	List price	Catalog number	List price		
—	—	—	1/4	A9S-84C	\$ 165	A9-30-10-84	\$ 78	TA25DU0.4 (0.25 – .4)	\$ 63		
—	—	1/4,1/3	1/3	A9S-84D		A9-30-10-84		TA25DU0.63 (0.4 – .63)			
—	—	—	1/2	A9S-84E		A9-30-10-84		TA25DU1.0 (0.63 – 1.0)			
—	—	1/2	3/4	A9S-84F		A9-30-10-84		TA25DU1.4 (1.0 – 1.4)			
—	—	3/4	—	A9S-84G		A9-30-10-84		TA25DU1.8 (1.3 – 1.8)			
—	1/2	1	1.5	A9S-84H		A9-30-10-84		TA25DU2.4 (1.7 – 2.4)			
1/2	—	1.5	2	A9S-84J		A9-30-10-84		TA25DU3.1 (2.2 – 3.1)			
3/4	3/4	2	—	A9S-84K		A9-30-10-84		TA25DU4.0 (2.8 – 4.0)			
—	1	—	3	A9S-84L		A9-30-10-84		TA25DU5.0 (3.5 – 5.0)			
1	1.5	3	5	A9S-84M		A9-30-10-84		TA25DU6.5 (4.5 – 6.5)			
2	2	5	—	A9S-84N		A9-30-10-84		TA25DU8.5 (6.0 – 8.5)			
—	—	—	7.5	A9S-84P		A9-30-10-84		TA25DU11 (7.5 – 11)			
3	3	7.5	10	A12S-84Q		171		A12-30-10-84		84	TA25DU14 (10 – 14)
5	5	10	15	A16S-84R		200		A16-30-10-84		102	TA25DU19 (13 – 19)
—	7.5	15	20	A26S-84S	294	A26-30-10-84	183	TA25DU25 (18 – 25)			
7.5	10	20	25	A26S-84T		A26-30-10-84		TA25DU32 (24 – 32)			
10	10	—	—	A30S-84B	365	A30-30-10-84	252	TA42DU32 (22 – 32)	78		
—	—	25	30	A30S-84C				TA42DU42 (29 – 42)			
10	15	30	40	A40S-84C	423	A40-30-10-84	297	TA42DU42 (29 – 42)			
15	—	40	50	A50S-84D	458	A50-30-11-84	330	TA75DU52 (36 – 52)	102		
—	20	—	—	A50S-84E		A50-30-11-84		TA75DU63 (45 – 63)			
20	—	—	—	A63S-84F	522	A63-30-11-84	372	TA75DU80 (60 – 80)	165		
—	—	50	60	A63S-84F		A63-30-11-84					
25	30	60	75	A75S-84F	563	A75-30-11-84	413		102		
30	—	—	—	A95S-84A	735	A95-30-11-84	450	TA110DU90 (65 – 90)	165		
—	40	75	100	A110S-84B	765	A110-30-11-84	480	TA110DU110 (80 – 110)			
40	—	—	—	A145S-84C	1315	A145-30-11-84	825	TA200DU135 (100 – 135)	225		
—	50	100	125	A145S-84D				TA200DU150 (110 – 150)			
50	60	125	150	A185S-84E	1730	A185-30-11-84	1290	TA200DU175 (130 – 175)			
60	75	150	200	A210S-84E3	2135	A210-30-11-84	1635	E320D4320 (105-320)	775		
75	100	200	250	A260S-84E3	2740	A260-30-11-84	1815				
100	—	250	300	A300S-84E3	2890	A300-30-11-84	1875				
125	125, 150	350	400	A400S-70E5	4125	AF400-30-11-70	3120	E500DU500 (170 – 500)	865		
150	200	400	500	A460S-70E5	5700	AF460-30-11-70	4425				
200	250	500	600	A580S-70E8	8346	AF580-30-11-70	6900	E800DU800 (270 – 800)	950		
250	300	600	700	A750S-70E8	8646	AF750-30-11-70	7200				

CAUTION: The above ratings are based on average motor FLA. Actual FLA on the motor nameplate should be used for overload relay setting.

Coil voltage selection

All AC operated catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 starter: A75S-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Coil voltage selection – A9 - A300 ②

Hz	type	Volts																	
		Cntr		12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	A		81	83	84	84				34	36	80	42						
50	A		81	83	84						80				85	86			55

For other voltages, see page 1.26.

Coil voltage selection – A400 - A750 ②

Hz	type	Volts				
		Cntr		24 - 60	48 - 130	100 - 250
60	AF		68	69	70	71
50	AF		68	69	70	71
DC	AF		68	69	70	71

Control transformer voltage selection chart

Hz	Type	Volts			
		208/120	230 – 240/120	460 – 480/120	575 – 600/120
50/60	A/AF	0	7	8	9

For other voltages, consult factory.

① For motors with RPM greater or less than 1800 RPM, check full load amp rating on motor nameplate to ensure proper overload protection.
 ② For AF50 – AF 300 starters, consult factory.

Starter selection by motor horsepower & voltage

NEMA sizes & ratings, three phase

Starters **3**

NEMA size	Motor horsepower				Complete starter		Starter components			
	3-phase, 1800 RPM ①				Catalog number	List price	Contactors		Overload relays	
	200V	230V	460V	575V			Catalog number	List price	Catalog number	List price
00	—	—	—	1/4	A9N00S-84C	\$ 165	A9N00-30-10-84	\$ 78	TA25DU0.4 (0.25 - .4)	\$ 63
	—	—	—	1/3	A9N00S-84D		A9N00-30-10-84		TA25DU0.63 (0.4 - .63)	
	—	—	1/4	1/2	A9N00S-84E		A9N00-30-10-84		TA25DU1.0 (0.63 - 1.0)	
	—	1/4	1/3, 1/2	—	A9N00S-84F		A9N00-30-10-84		TA25DU1.4 (1.0 - 1.4)	
	—	1/3	3/4	3/4	A9N00S-84G		A9N00-30-10-84		TA25DU1.6 (1.3 - 1.6)	
	1/3, 1/4	1/2	1	1	A9N00S-84H		A9N00-30-10-84		TA25DU2.4 (1.7 - 2.4)	
	1/2	—	—	1.5, 2	A9N00S-84J		A9N00-30-10-84		TA25DU3.1 (2.2 - 3.1)	
	3/4	3/4	1.5, 2	—	A9N00S-84K		A9N00-30-10-84		TA25DU4.0 (2.8 - 4.0)	
	—	1	—	—	A9N00S-84L		A9N00-30-10-84		TA25DU5.0 (3.5 - 5.0)	
	1	1.5	—	—	A9N00S-84M		A9N00-30-10-84		TA25DU6.5 (4.5 - 6.5)	
—	—	—	—	A9N00S-84N	A9N00-30-10-84	TA25DU8.5 (6.0 - 8.5)				
0	—	—	—	3	A16N0S-84L	200	A16N0-30-10-84	102	TA25DU5.0 (3.5 - 5.0)	
	—	—	3	5	A16N0S-84M		A16N0-30-10-84		TA25DU6.5 (4.5 - 6.5)	
	2	2	5	—	A16N0S-84N		A16N0-30-10-84		TA25DU8.5 (6.0 - 8.5)	
	3	3	—	—	A16N0S-84P		A16N0-30-10-84		TA25DU11 (7.5 - 11)	
1	—	—	—	7.5	A26N1S-84P	294	A26N1-30-10-84	183	TA25DU11 (7.5 - 11)	
	—	—	7.5	10	A26N1S-84Q		A26N1-30-10-84		TA25DU14 (10 - 14)	
	5	5	10	—	A26N1S-84R		A26N1-30-10-84		TA25DU19 (13 - 19)	
—	—	—	—	A26N1S-84S	A26N1-30-10-84	TA25DU25 (18 - 25)				
2	—	—	—	15	A50N2S-84R	393	A50N2-30-11-84	330	TA25DU19 (13 - 19) ③	
	—	—	15	20	A50N2S-84A		A50N2-30-11-84		TA75DU25 (18 - 25)	
	—	10	20	25	A50N2S-84B		A50N2-30-11-84		TA75DU32 (22 - 32)	
	10	15	25	—	A50N2S-84C		A50N2-30-11-84		TA75DU42 (29 - 42)	
3	—	—	—	30	A75N3S-84C	563	A75N3-30-11-84	413	TA75DU42 (29 - 42)	
	15	—	30	40	A75N3S-84D		A75N3-30-11-84		TA75DU52 (36 - 52)	
	20	20	40	50	A75N3S-84E		A75N3-30-11-84		TA75DU63 (45 - 63)	
	25	25, 30	50	—	A75N3S-84F		A75N3-30-11-84		TA75DU80 (60 - 80)	
4	—	—	60	60, 75	A145N4S-84A	1315	A145N4-30-11-84	825	TA200DU90 (65 - 90)	165
	30	40	75	100	A145N4S-84B		A145N4-30-11-84		TA200DU110 (80 - 110)	
	40	50	100	—	A145N4S-84C		A145N4-30-11-84		TA200DU135 (100 - 135)	
5	50, 60, 75	60, 75, 100	125, 150, 200	200	A260N5S-8E3	2740	A260N5-30-11-84	1815	E320DU320 (105-320)	775
	—	100	200	—	A260N5S-8E3		A260N5-30-11-84		E320DU320 (105-320)	
6	100, 125	125, 150	250, 300	250, 300	A460N6S-70E5	5700	AF460N6-3011-70	4425	E500DU500 (170 - 500)	865
	150	200	400	400	A460N6S-70E5		AF460N6-3011-70		E500DU500 (170 - 500)	
7	—	250, 300	500, 600	500, 600	A750N7S-70E8	8646	AF750N7-3011-70	7200	E800DU800 (270 - 800)	950

CAUTION: The above ratings are based on average motor FLA. Actual FLA on the motor nameplate should be used for overload relay setting.

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Ex.: A 240V coil is required for an A75 starter: A75NS-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Coil voltage selection – A9 - A300 ②

Hz	type	Cntr Volts															
		12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	A		81	83	84	84		34	36	80	42		86	86	51	53	55
50	A		81	83	84				80				85	86			55

For other voltages, see page 1.26.

Coil voltage selection – A400 - A750 ②

Hz	type	Cntr Volts			
		24 - 60	48 - 130	100 - 250	250 - 500
60	AF	68	69	70	71 ④
50	AF	68	69	70	71 ④
DC	AF	68	69	70	71 ④

Control transformer voltage selection chart

Hz	Type	Volts			
		208/120	230 - 240/120	460 - 480/120	575 - 600/120
50/60	A/AF	0	7	8	9

For other voltages, consult factory.

① For motors with RPM greater or less than 1800 RPM, check full load amp rating on motor nameplate to ensure proper overload protection.

② For AF50 - AF 300 starters, consult factory.

③ Overload to be base mounted.

④ AF400 - AF750 only.